

DRIVING DEVICE OF CAPACITIVE LOAD

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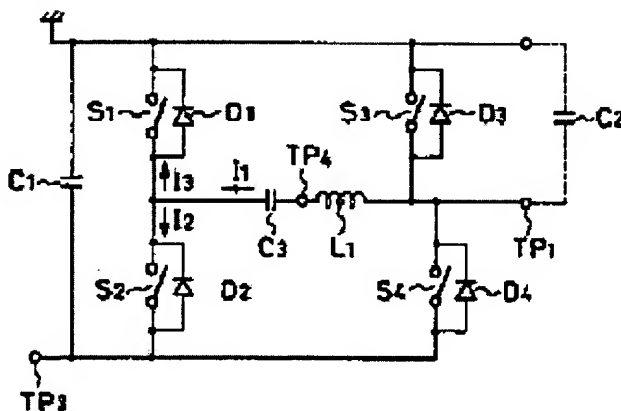
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Abstract of JP10301530

PROBLEM TO BE SOLVED: To obtain a power recovering type driving device of a capacitive load enabling the conduction of highly efficient operation with high speed by respectively connecting diodes to respective switches in parallel and making terminal sides of respective diodes close to the high voltage side of a DC power source to be cathodes.

SOLUTION: One end of the coil L1 and the capacitor C3 connected in series, the switch for clamp S3 connected to the high voltage side of the DC power source and the switch for clamps S4 connected to the low voltage side of the power source are connected to the first electric pole of a capacitive load C2. The switch for recovery S1 connected to the high voltage side of the power source and the switch for recovery S2 connected to the low voltage side of the power source are connected to the other terminal of the coil L1 and the capacitor C3 connected in series. Moreover, diodes are connected to respective switches in parallel and terminal sides of respective diodes close to the high voltage side of the power source are made cathodes. Thus, noise and power loss caused by lash currents are made small.



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Attack circuit for display panel with energy recuperation - has capacitive load across one arm of four-arm bridge with centre span formed by series LC circuit to generate pulses to supply the load

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Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
FR 2762705	A1	19981030	FR 985249	A	19980427	199849	B
JP 10301530	A	19981113	JP 97122986	A	19970425	199905	
JP 2976923	B2	19991110	JP 97122986	A	19970425	199953	
US 5994929	A	19991130	US 9866981	A	19980427	200003	
KR 98081751	A	19981125	KR 9814869	A	19980425	200005	
KR 354286	B	20021218	KR 9814869	A	19980425	200336	

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Patent Details

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FR 2762705	A1		63	G09G-003/28	
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KR 98081751	A			G09G-003/28	
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Abstract:

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The attack circuit delivers pulses of energy to a capacitive load through a series circuit formed of a coil (L1) and a capacitor (C3). The series circuit is connected at the centre of a four-arm bridge circuit, with switches (S) in each arm and free-wheel diodes (D) connected across each of the switches.

The load capacitor (C2) has one terminal connected to the ground side of the DC supply, and the other to the terminal (TP1) at one end of the series circuit, connecting it effectively across one arm of the bridge. The switches are operated to deliver current pulses to the capacitive load.

USE - Attack circuit for plasma, electroluminescent or liquid crystal display panels.